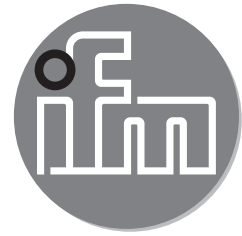


ifm electronic



Installation Instructions
Flow sensor

efector300[®]

SF ceramics

UK

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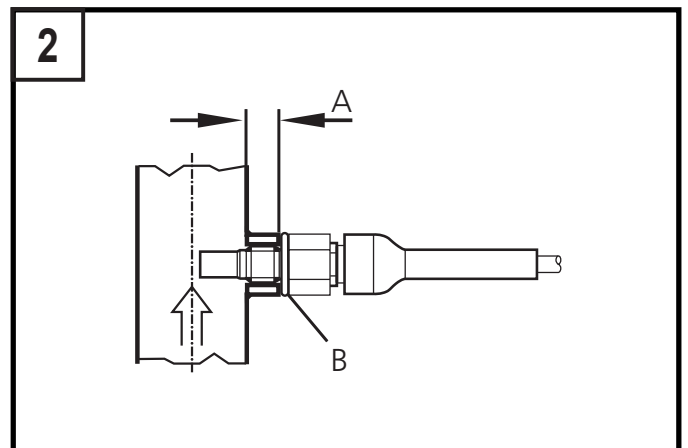
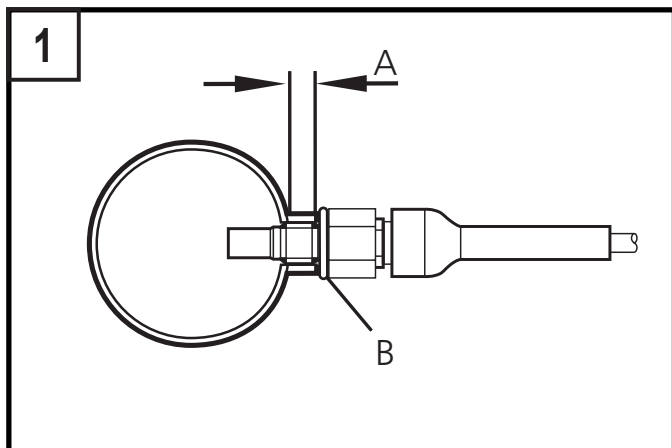
1 Functions and features

In conjunction with the VS3000 control monitor the flow sensor monitors flows in liquids. The sensor / control monitor combination senses whether there is a preset flow rate (= medium flowing) or not (= medium not flowing) and provides a switched signal.

2 Installation

The sensor tip must be completely immersed in the medium.

- In the case of horizontal pipes mount the unit from the side, if possible (fig. 1).
 - When the unit is to be mounted at the bottom of the pipe, it should be free from deposits.
 - When the unit is to be mounted at the top of the pipe, it should be completely filled with the medium to be monitored.
- In the case of vertical pipes mount the unit in a place where the medium flows upwards (fig. 2).



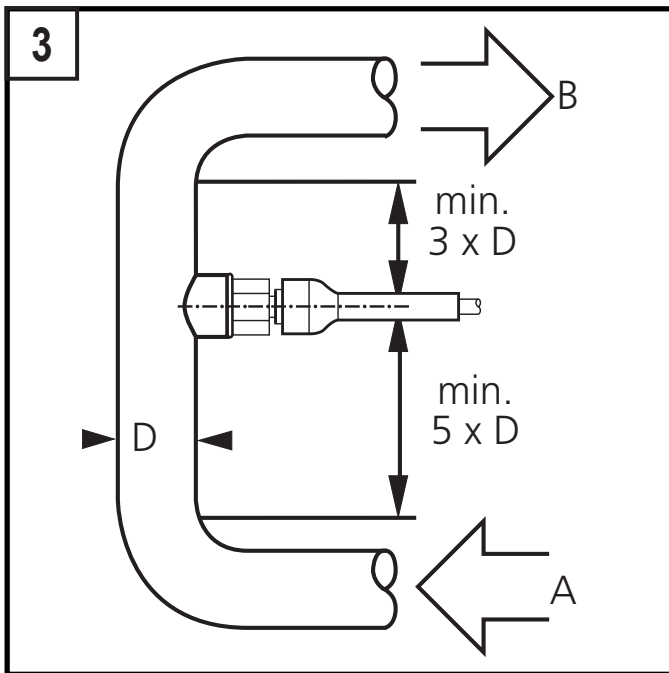
A: mounting bush; B: packing washer

	for units with thread	
	G $\frac{1}{4}$	G $\frac{1}{2}$
Mounting bush (A)	15 mm	33 mm
Max. tightening torque	8 Nm	30 Nm

! The thread of the mounting bush must be clean, undamaged and comply with the standard (pipe thread to DIN ISO 228).

For sealing use the supplied PTFE packing washer.

To avoid malfunction a minimum distance between the flow monitor and bends, valves or such like must be observed. Min. 5 x pipe diameter upstream (A), min. 3 x pipe diameter downstream (B).



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3 Electrical connection



The unit must only be connected by an electrician.

The national and international regulations for the installation of electrical equipment must be observed.

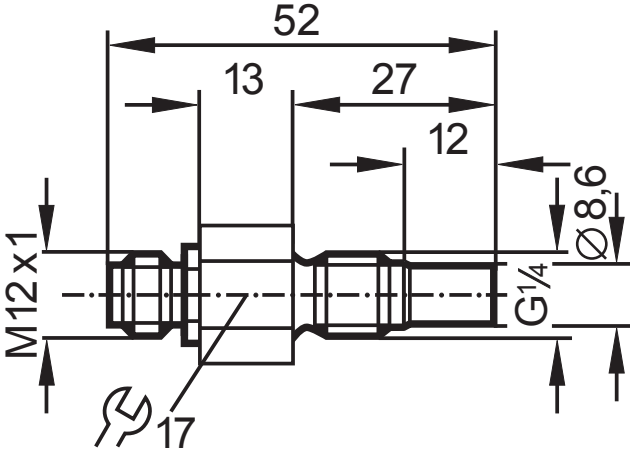
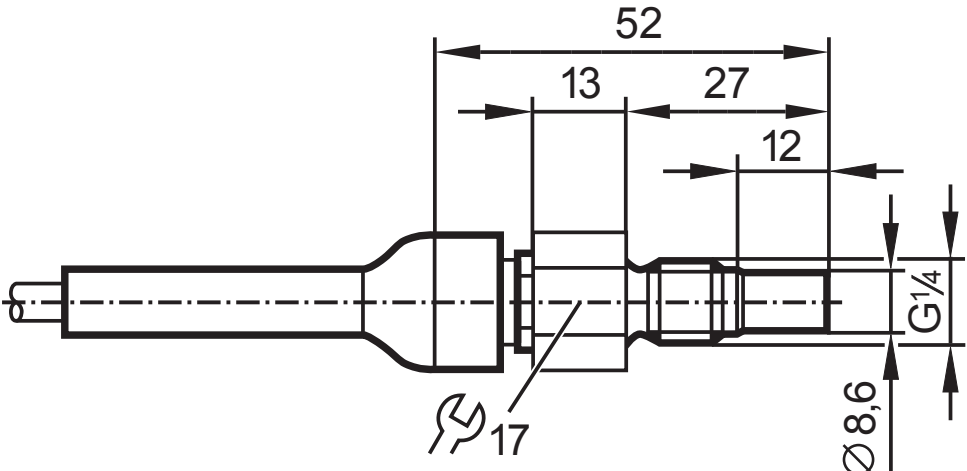
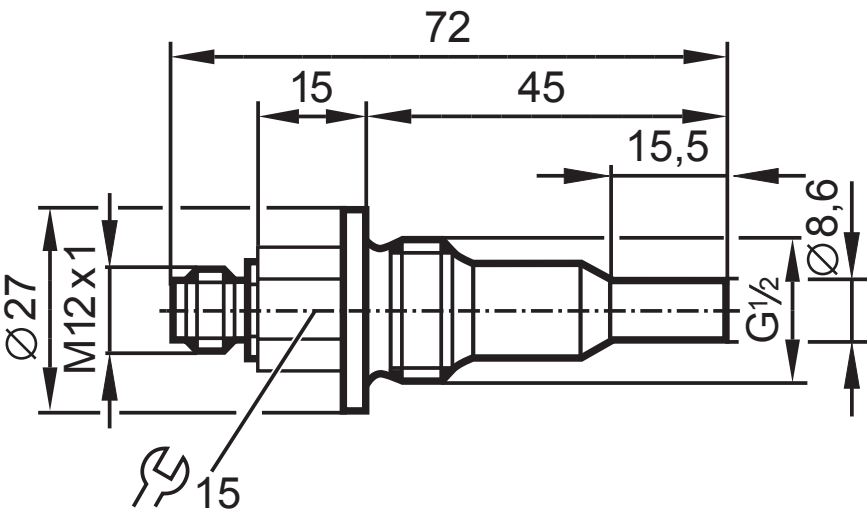
Connection to control monitor VS3000; voltage supply to EN50178, SELV, PELV.

For units with cULus approval and the scope of validity cULus:

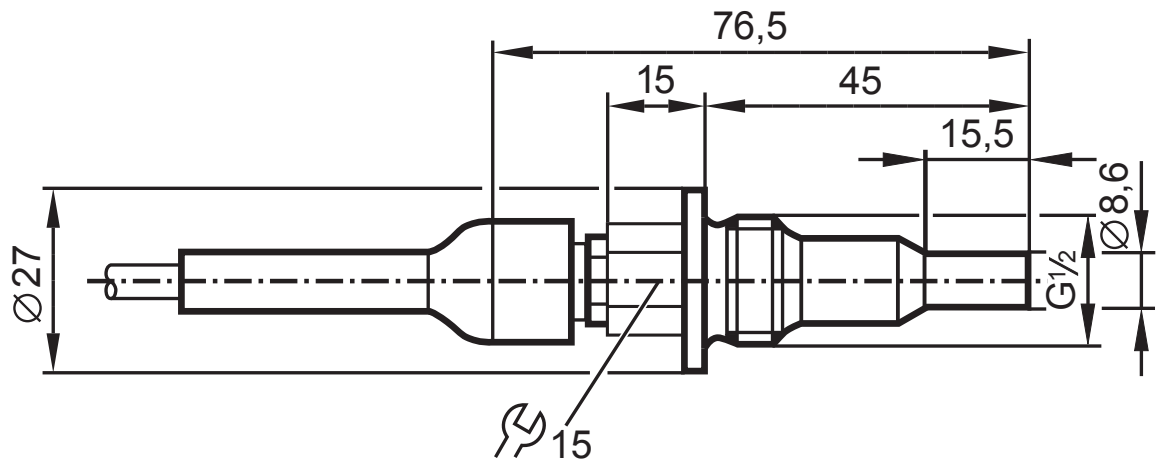
The device shall be supplied from an isolating transformer having a secondary Listed fuse rated either

- a) max 5 amps for voltages 0~20 Vrms (0~28.3 Vp) or
- b) 100/Vp for voltages of 20~30 Vrms (28.3~42.4 Vp).

4 Scale drawings

<p>SF2405</p>	 <p>Technical drawing of SF2405 showing a side view of a mechanical component. The drawing includes the following dimensions and features:</p> <ul style="list-style-type: none"> Total length: 52 Distance from left end to the start of the second section: 13 Distance from the start of the second section to the end: 27 Distance from the start of the second section to the start of the third section: 12 Thread specification on the left: M12x1 Thread specification on the right: G¹/₄ Outer diameter of the right section: Ø8,6 Wrench size: 17
<p>SF2410</p>	 <p>Technical drawing of SF2410 showing a side view of a mechanical component. The drawing includes the following dimensions and features:</p> <ul style="list-style-type: none"> Total length: 52 Distance from left end to the start of the second section: 13 Distance from the start of the second section to the end: 27 Distance from the start of the second section to the start of the third section: 12 Thread specification on the right: G¹/₄ Outer diameter of the right section: Ø8,6 Wrench size: 17
<p>SF3405</p>	 <p>Technical drawing of SF3405 showing a side view of a mechanical component. The drawing includes the following dimensions and features:</p> <ul style="list-style-type: none"> Total length: 72 Distance from left end to the start of the second section: 15 Distance from the start of the second section to the end: 45 Distance from the start of the second section to the start of the third section: 15,5 Outer diameter of the left section: Ø27 Thread specification on the left: M12x1 Thread specification on the right: G¹/₂ Outer diameter of the right section: Ø8,6 Wrench size: 15

SF3410



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